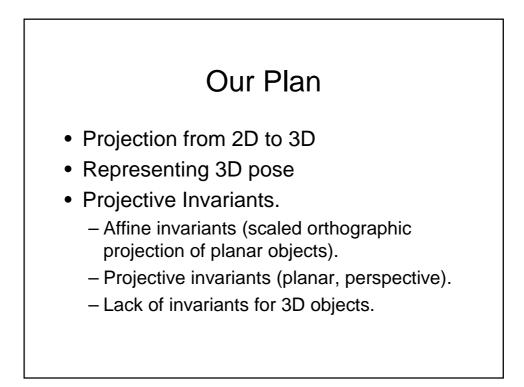
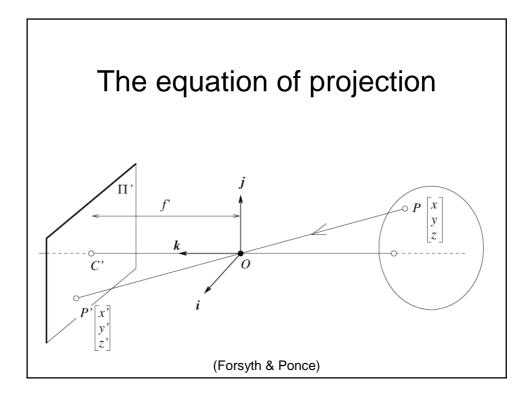
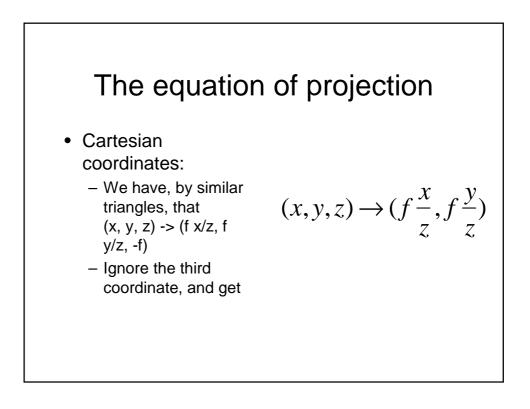
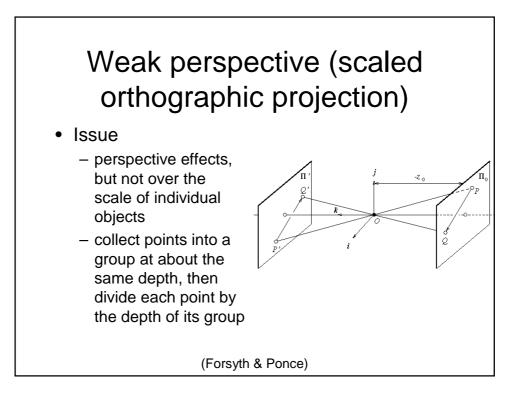
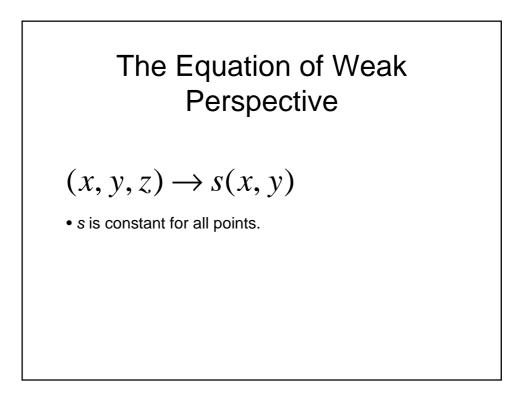
## 3D Geometry

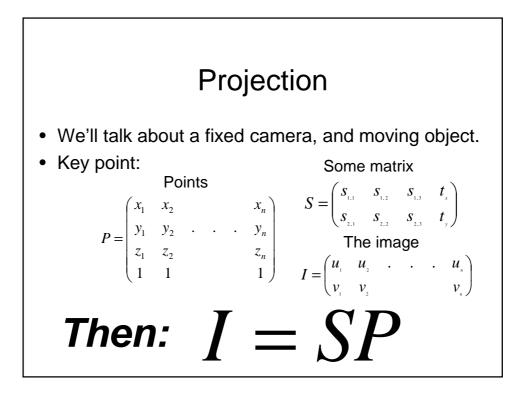


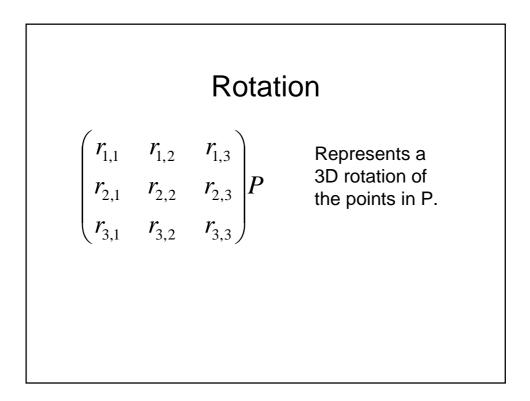


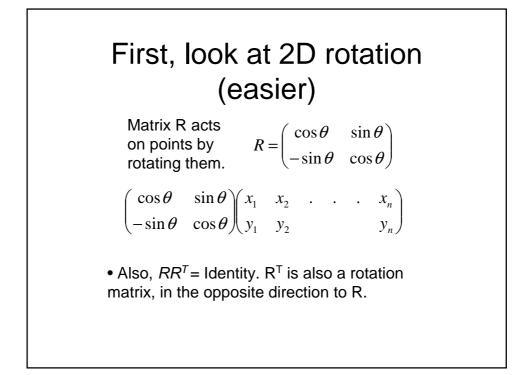


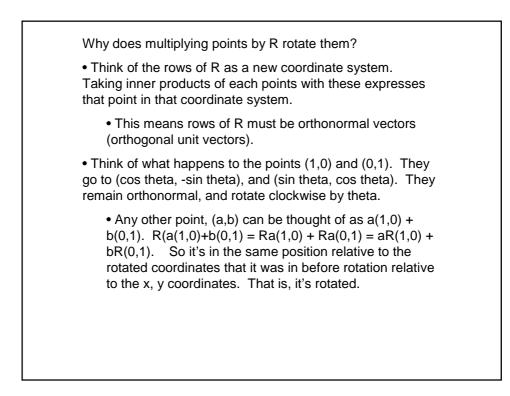


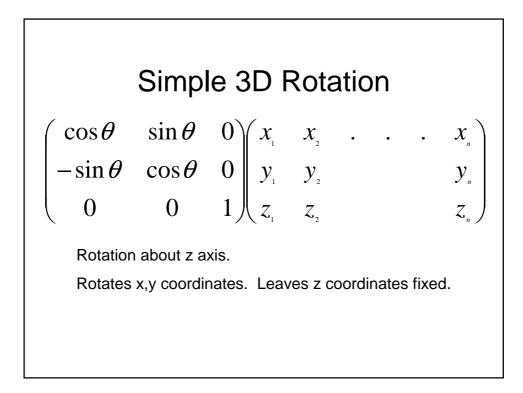


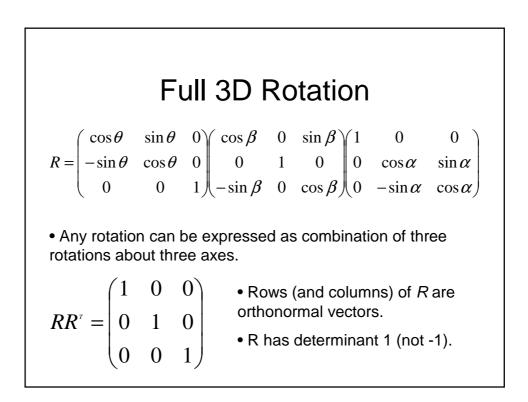


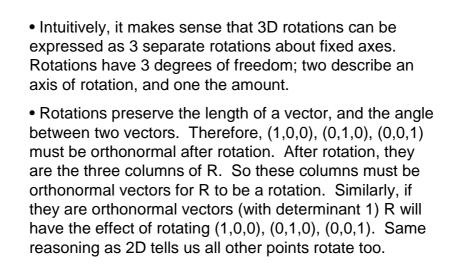




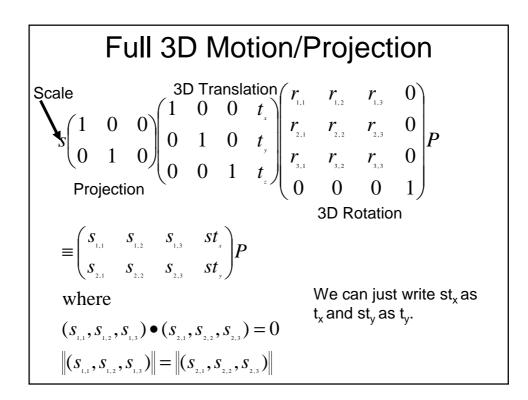


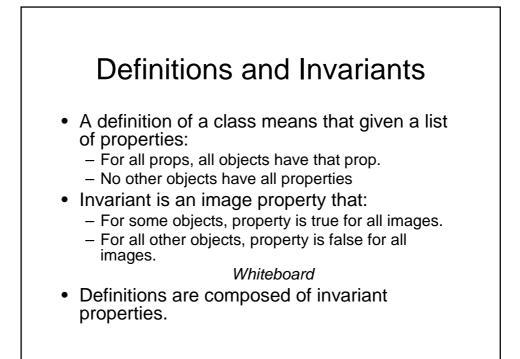


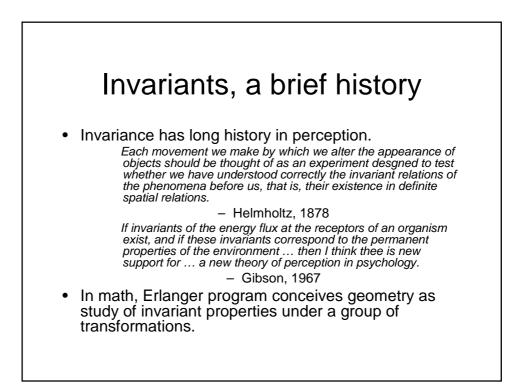


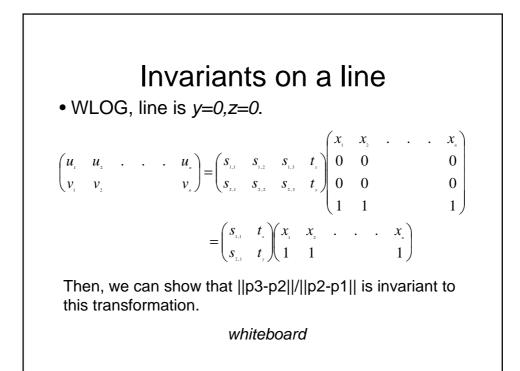


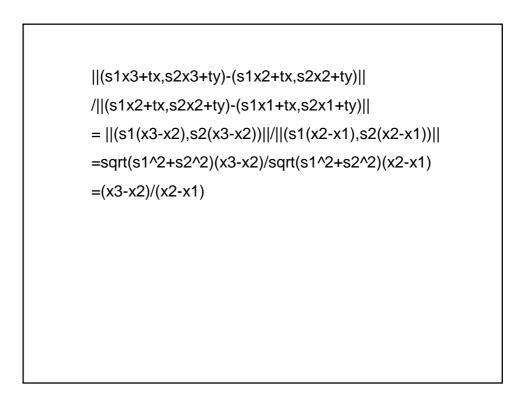
• Note if R has determinant -1, then R is a rotation plus a reflection.

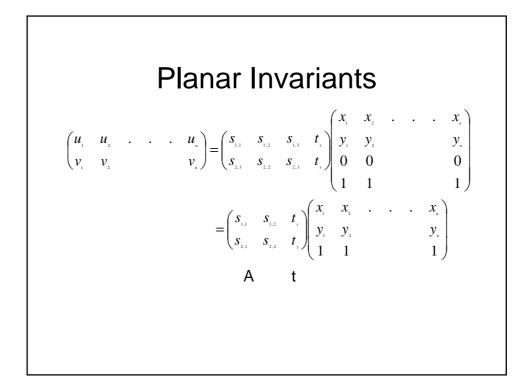


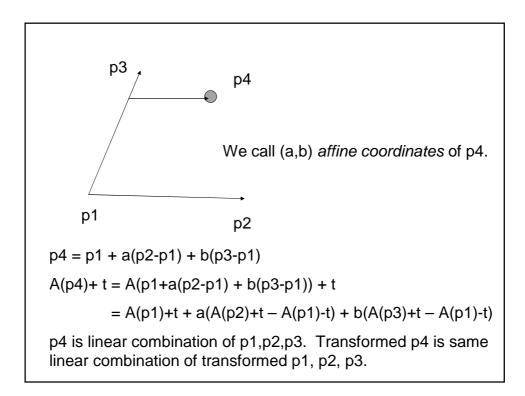


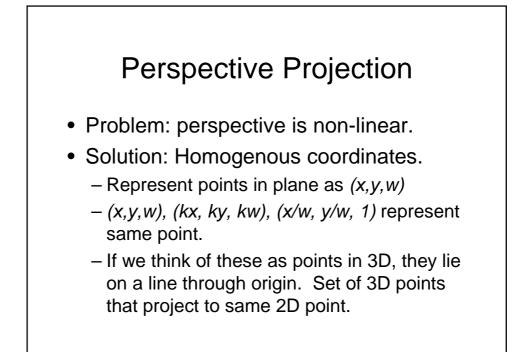


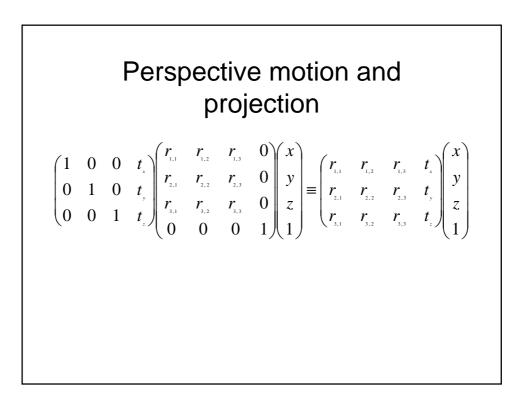


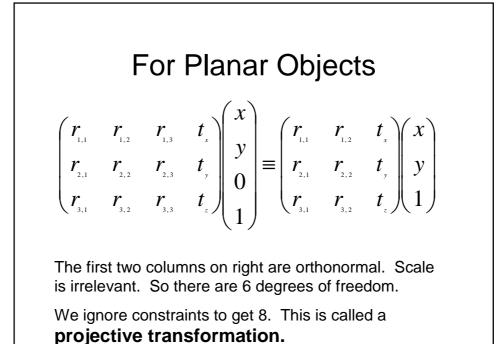


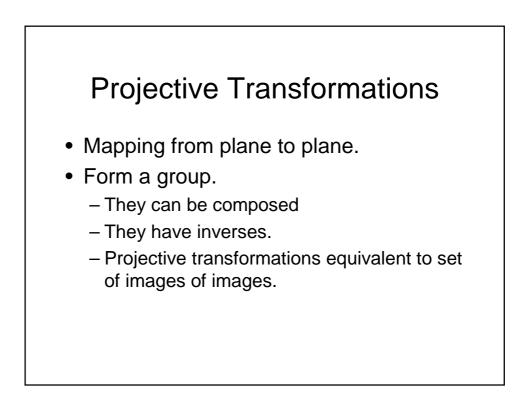


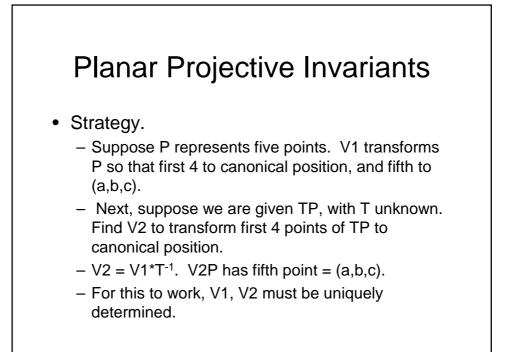


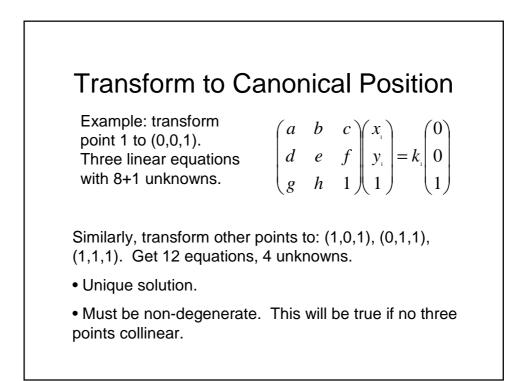


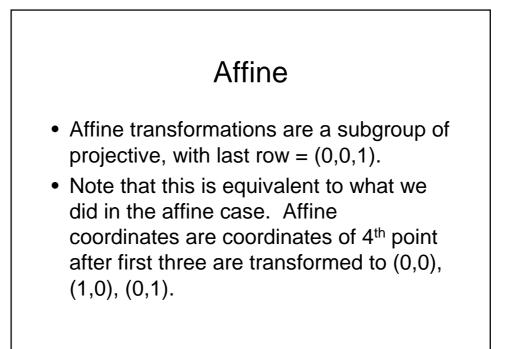


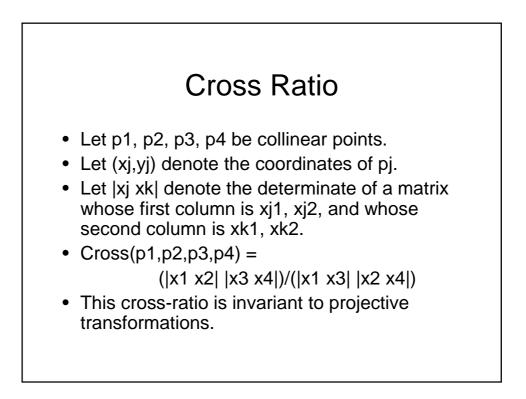


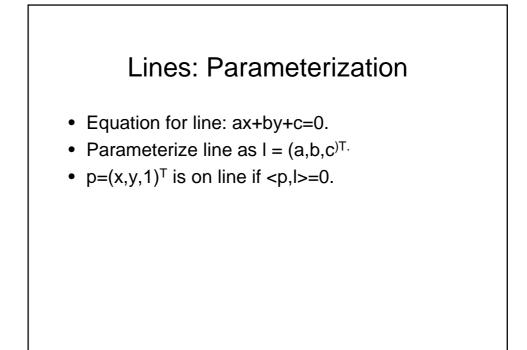


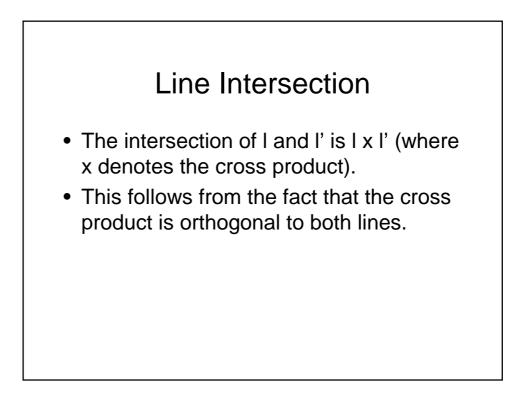


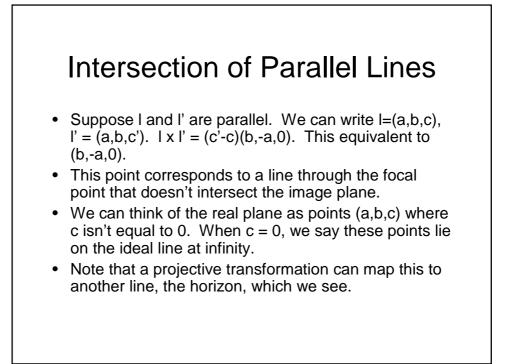


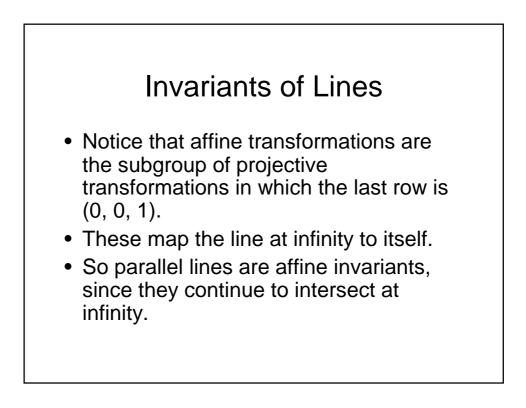


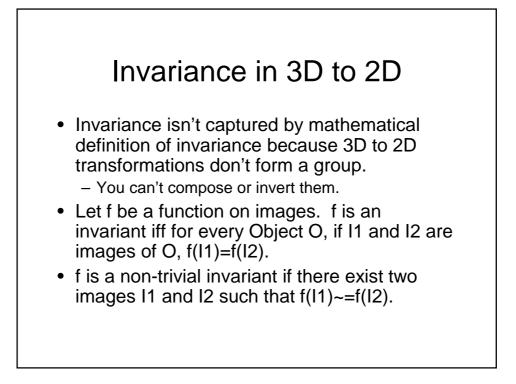


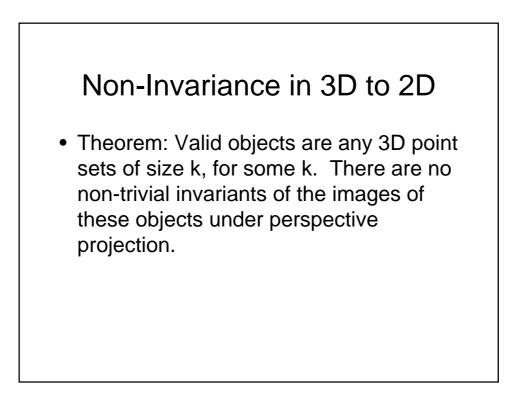


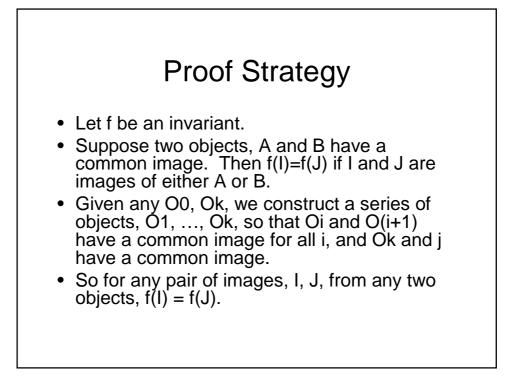


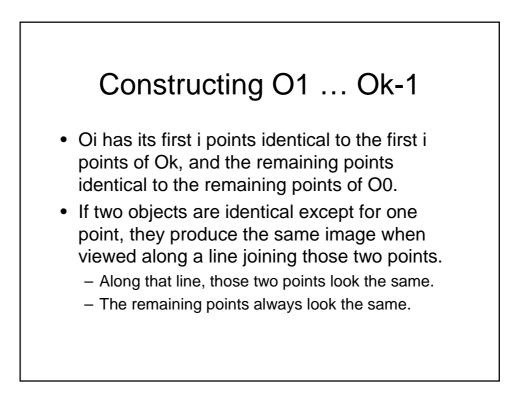


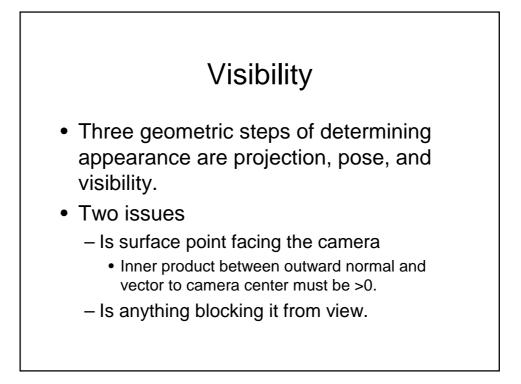


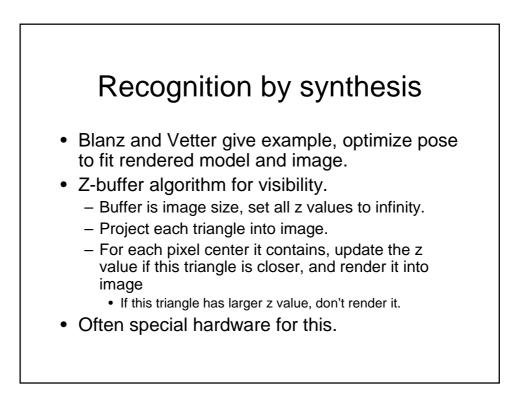












## Preprocess model to determine consistent feature sets.

- Example: if an object has 20 features, might recognize it by looking for all 20 in image.
- Suppose "object" is a sheet of paper with ten features on each side. We should represent this as two sets of ten features, not one set of 20.

